

REMARKS

Favorable reconsideration of the application is respectfully requested in light of the amendments and remarks herein.

Upon entry of this amendment, claims 1-25 will be pending. By this amendment, claims 1, 10, 18-21, and 25 have been amended. No new matter has been added.

§103 Rejection of Claims 1-25

In Section 2 of the Office Action of September 13, 2006 (hereinafter referred to as “Office Action”), claims 1-25 stand rejected under 35 U.S.C. §103(a) as being unpatentable over *Lee et al.* (U.S. Patent Application No. 2002/0181416; hereinafter referred to as “Lee”) in view of *Gorsuch* (U.S. Patent No. 6,526,034; hereinafter referred to as “Gorsuch”).

Embodiments of the present invention provide accessibility to multiple public network interface protocols (wireless air interfaces) including CDMA, Wi-Fi, and Wi-Max by providing a plurality of service interfaces within the router to automatically convert the signal going out and coming in according to the detected public network interface protocol. For example, “[a]fter opening a session between the user terminal 225 and a network service 205 through the gateway 215, the user terminal 225 and network service 205 send data to each other through the gateway 215. In sending data from the user terminal 225 to the network service 205, the user terminal 225 uses the application layer to generate data to send. The user terminal 225 uses the middleware layer to prepare the data for transmission (e.g., using TCP/IP for addressing and packetizing). The user terminal 225 uses the physical interface layer to send the data to the LAN interface 220. The LAN interface 220 passes the data to the gateway 215. ... The gateway 215 uses the routing layer to determine the recipient of the received data. The gateway 215 uses the

gateway services layer to process the data according to the determined recipient and matching protocol. For example, when the application layer of the user terminal 225 does not match the application layer of the network service 205 for the intended recipient (as established when the session was opened), the gateway 215 uses a service interface of the gateway service layer to convert data from one protocol or format to another. The gateway 205 uses the routing layer again to prepare the data for the public network interface 210 and then sends the data to the public network interface 210. The public network interface 210 passes the data to the network service 205." *Specification, page 5, line 16 to page 6, line 6.*

For example, claim 1 as presented herein includes:

A wireless gateway comprising:

a local network interface using a local network interface protocol;

a wireless interface providing access to multiple public network interface protocols;

a controller connected to said local network interface and to said wireless interface, said controller operating to detect a public network interface protocol currently in use from said multiple public network interface protocols accessible to said wireless interface; and

one or more service interfaces connected to said local network interface and to said wireless interface;

wherein each service interface provides automatic data conversion between the local network interface protocol and the detected public network interface protocol.

In summary, aspects of claim 1 for a wireless gateway include: (1) a local network interface using a local network interface protocol; (2) a wireless interface providing access to multiple public network interface protocols; (3) a controller operating to detect a public network interface protocol currently in use; and (4) at least one service interface providing automatic data

conversion between the local network interface protocol and the detected public network interface protocol. Accordingly, the wireless gateway of claim 1 provides the detection of a public network interface protocol currently in use (from multiple protocols accessible to the wireless public network interface) and the service of at least one service interface to provide automatic data conversion between the local network interface protocol and the detected public network interface protocol.

By contrast, in Lee, multiple signal transceivers (11 in Fig. 1 of Lee) are required in the wireless home network (equivalent to the “local network interface” of claim 1) to convert protocols of different wireless devices (e.g., 20 and 21 in Fig. 1 of Lee) to the protocol being used for the home network. It seems Lee’s signal transceivers are operating to provide compatibility within the home network for different wireless home electronic devices, whereas the wireless gateway of claim 1 operates to provide compatibility between the local network interface protocol and the public network interface protocol, which provides “access [to] a network 115, such as the Internet”. *Specification, page 4, line 22*. Thus, it is submitted that Lee fails to teach or suggest all of the limitations of claim 1. Further, it was indicated on page 3 of the Office Action that Gorsuch was merely cited for teaching a local network interface. Accordingly, without commenting on the characterization of Gorsuch with respect to the local network interface, it is submitted that Lee and Gorsuch, individually or in combination, fail to teach or suggest all of the limitations of claim 1.

Based on the foregoing discussion, claim 1 should therefore be allowable over Lee and Gorsuch. Since independent claims 10, 21, and 25 recite similar limitations as recited in claim 1, claims 10, 21, and 25 should also be allowable over Lee and Gorsuch. Further, since claims 2-9, 11-20, and 22-24 depend from independent claims 1, 10, and 21, respectively, claims 2-9, 11-20,

and 22-24 should also be allowable over Lee and Gorsuch.

Accordingly, it is submitted that the rejection of claims 1-25 based upon 35 U.S.C. §103(a) has been overcome by the present remarks and withdrawal thereof is respectfully requested.

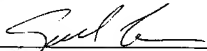
Conclusion

In view of the foregoing, applicants respectfully request reconsideration of claims 1-25 in view of the remarks and submit that all pending claims are presently in condition for allowance.

In the event that additional cooperation in this case may be helpful to complete its prosecution, the Examiner is cordially invited to contact Applicant's representative at the telephone number written below.

Respectfully submitted,

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